

Application Number 09/938,144
Responsive to Office Action mailed January 27, 2005

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claim 1 (Previously Presented): A data storage device in a form factor assembly not greater than three and one half inches comprising:

- a data disc rotatably mounted on a baseplate;
- an actuator arm adjacent to the data disc carrying a transducer for reading data from and writing data to the data disc;
- a printed circuit board (PCB) fastened to the baseplate having a servo controller in operable communication with the actuator arm for moving the actuator arm over the data disc;
- a central processing unit (CPU) mounted to the PCB generating control signals to the servo controller and running an operating system; and
- memory storing an application program operably connected to the CPU, whereby the application program is run by the CPU.

Claim 2 (Original): The data storage device of claim 1 wherein the data storage device is connected to a communications network, further comprising:

- an input/output module communicating to a node connected to the communications network.

Claim 3 (Original): The data storage device of claim 2 wherein the input/output module includes a network interface module operable to communicate to a node on the network using a hypertext transport protocol.

Claim 4 (Original): The data storage device of claim 3 wherein the input/output module further includes a video interface module operable to drive a video monitor via the communications network.

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Claim 5 (Original): The data storage device of claim 4 wherein the data storage device is a three and one half inch form factor assembly.

Claim 6 (Original): The data storage device of claim 5 further comprising a file system managing file data stored on the data disc, wherein the file system is in direct communication with the servo controller.

Claim 7 (Withdrawn): A computer system comprising:

a docking station having a connector port for receiving a data storage device; and

a data storage device having a microprocessor, a memory storing an operating system operably connected to the microprocessor operable to execute application programs, whereby the microprocessor executes the operating system, an input/output module operably connected to a communications network, and a data storage disc, the data storage device connected to the connector port.

Claim 8 (Withdrawn): The computer system of claim 7 wherein the docking station includes a connection to a communications network.

Claim 9 (Withdrawn): The computer system of claim 7 wherein the input/output module operably communicates with a node on the communications network using a hypertext transport protocol.

Claim 10-12 (Canceled)

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Claim 13 (Currently Amended): A data storage device in a form factor assembly not greater than three and one half inches comprising:

a microprocessor executing application programs;

a data disc;

an actuator assembly rotatably mounted adjacent the data disc for positioning transducer heads relative to the data disc;

a servo control module controlling the actuator assembly;

a memory containing ~~the~~ an operating system and operably connected to the microprocessor, whereby the microprocessor runs the operating system; and

a communication means operably connected to the microprocessor and the memory for communicating data stored on the data storage device to a node on a communications bus.

Claim 14 (Original): The data storage device of claim 13 wherein the data storage device is connected to a communications network, further comprising:

an input/output module operable to receive data from a node on the communications network.

Claim 15 (Original): The data storage device of claim 14 wherein the input/output module operably communicates with a node on the communications network using a hypertext transport protocol.

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Claim 16 (Previously Presented): A data storage device having a three and one half inch form factor or less, the storage device comprising:

- a data disc rotatably mounted on a baseplate;

- an actuator arm adjacent to the data disc carrying a transducer for reading data from and writing data to the data disc;

- a printed circuit board (PCB) within the form factor fastened to the baseplate, the PCB having a servo controller mounted thereon in operable communication with the actuator arm for moving the actuator arm over the data disc, a central processing unit (CPU) running an operating system mounted thereon generating control signals to the servo controller, and a memory mounted thereon storing an application program operably connected to the CPU, wherein the application program is run by the operating system running in the CPU.

Claim 17 (Previously Presented): The device according to claim 16 wherein the memory stores both the operating system and the application program for use by the CPU.

Claim 18 (New): An intelligent storage element comprising:

- a case forming a substantially sealed environment;

- a data disc mounted within the case, wherein the data disc rotates about a central axis;

- an actuator arm carrying a head to read and write data to the data disc;

- a central processing unit mounted within the case; and

- a memory mounted within the case, wherein the memory stores an operating system, and the central processing unit runs the operating system.

Claim 19 (New): The intelligent storage element of claim 18, wherein the data disc is a magnetic data storage media.

Claim 20 (New): The intelligent storage element of claim 18, further comprising a network interface module, wherein the network interface module allows the intelligent storage element to communicate across a network.

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Claim 21 (New): The intelligent storage element of claim 20, wherein the network is a local area network.

Claim 22 (New): The intelligent storage element of claim 18, wherein the case comprises a base and a top cover.

Claim 23 (New): The intelligent storage element of claim 18, wherein the operating system runs application software stored on the data disc.